

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--|------------------|---------|------------------|
| L1    | 0    | ("20020093994" or ("20020093986" or ("20020091885" or ("20020090045" or ("20020110215").PN.   | USPAT; USOCR                                       | OR               | OFF     | 2005/03/18 13:37 |
| L2    | 5    | ("20020093994" or ("20020093986" or ("20020091885" or ("20020090045" or ("20020110215").PN.   | US-PGPUB; USPAT; USOCR                             | OR               | OFF     | 2005/03/18 13:37 |
| S1    | 1    | first near phase near detect\$3 with control near signal\$2 and first near counter and second near phase near detect\$3 with reference near3 signal with delayed near clock near signal and second near counter | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/02/28 15:17 |
| S2    | 5    | first near phase near detect\$3 with control near signal\$2 and first near counter and second near phase near detect\$3 and second near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/02/28 15:25 |
| S3    | 1    | first near phase near detect\$3 with control near signal\$2 and first near counter and second near phase near detect\$3 with clock near signal and second near counter with offset near clock near signal       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/02/28 15:27 |
| S4    | 173  | digital near clock near recovery  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/02/28 15:27 |
| S5    | 2    | S4 and (first and second) near phase near detect\$3   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/02/28 15:29 |
| S6    | 1    | S4 and (first and second) near phase near detect\$3 with clock near signal  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/02/28 15:29 |

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| S7  | 7  | (first and second) near phase near detect\$3 with clock near signal and (first and second) near counter with clock near signal  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/28 15:34 |
| S8  | 9  | (first and second) near phase near detect\$3 with clock near signal and (first and second) near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/28 15:37 |
| S9  | 20 | (first and second) near phase near detect\$3 with clock near signal and selects\$3 with clock near signal\$1 and selects\$3 with clock near signal\$1 with control near signal\$1   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/28 15:46 |
| S10 | 0  | compar\$3 with data near signal with control near signal\$1 and selects\$3 with clock near signal\$1 and adjust\$3 with selects\$3 with signal and compar\$3 with reference near2 signal with delay\$2 near3 signal with control near signal and selects\$3 with clock near signal\$1 with control near signal\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/28 15:52 |
| S11 | 4  | compar\$3 with data near signal with control near signal\$1 and selects\$3 with clock near signal\$1 and compar\$3 with reference near2 signal with delay\$2 near3 signal and selects\$3 with clock near signal\$1 with control near signal\$1  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/02/28 15:53 |
| S12 | 1  | filter with pilot near code with code near generat\$3 and signal near process\$3 and rake near receiv\$3  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 15:03 |
| S13 | 0  | filter near3 pilot near code with code near generat\$3 and rake near receiv\$3  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 12:51 |
| S14 | 0  | filter near5 pilot near code with code near generat\$3 and rake near receiv\$3  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 12:51 |

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| S15 | 0       | filter near5 pilot near code same code near generat\$3 and rake near receiv\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 13:19 |
| S16 | 5304953 | WO "0105052" A1  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 13:19 |
| S17 | 0       | (WOO105052A1)".PTAN"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 13:20 |
| S18 | 0       | (WOO105052A1).PTAN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 13:20 |
| S19 | 0       | (WOO105052A1).PTPN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 13:21 |
| S20 | 0       | ("WOO105052A1).PTPN.").PN.   | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/03 13:20 |
| S21 | 0       | (WOO1/05052A1).PTPN.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 13:27 |
| S22 | 0       | "09350211"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 14:16 |
| S23 | 1       | (*6570918").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/03 14:16 |
| S24 | 0       | S23 and recover\$3 near symbol   | USPAT  | OR | OFF | 2005/03/03 14:17 |
| S25 | 1       | S23 and recover\$3 near data   | USPAT  | OR | OFF | 2005/03/03 14:17 |

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| S26 | 6  | recover\$3 near symbol\$1 and analog near2 digital near converter and rake near receiv\$3 and combin\$3                      | USPAT  | OR | OFF | 2005/03/03 14:51 |
| S27 | 11 | recover\$3 near symbol\$1 and analog near2 digital near converter and rake near receiv\$3 and combin\$3                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 14:55 |
| S28 | 1  | (*20020080862").PN.  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/03 14:54 |
| S29 | 0  | S28 and recover\$3   | USPAT  | OR | OFF | 2005/03/03 14:52 |
| S30 | 0  | S28 and recover\$3   | USPAT  | OR | OFF | 2005/03/03 14:52 |
| S31 | 0  | S28 and recover\$4   | USPAT  | OR | OFF | 2005/03/03 14:52 |
| S32 | 0  | S28 and recovering   | USPAT  | OR | OFF | 2005/03/03 14:52 |
| S33 | 0  | S28 and recove   | USPAT  | OR | OFF | 2005/03/03 14:52 |
| S34 | 0  | S28 and recover  | USPAT  | OR | OFF | 2005/03/03 14:53 |
| S35 | 0  | S28 and symbol\$1  | USPAT  | OR | OFF | 2005/03/03 14:58 |
| S36 | 0  | S28 and symbol\$1  | USPAT  | OR | OFF | 2005/03/03 14:53 |
| S37 | 0  | (*20020080862.PN.andrecover\$3").PN.   | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/03 14:53 |
| S38 | 0  | S28 and recover\$4   | USPAT  | OR | OFF | 2005/03/03 14:54 |
| S39 | 0  | S28 and strength   | USPAT  | OR | OFF | 2005/03/03 14:58 |
| S40 | 1  | S28 and strength   | US-PGPUB; USPAT                                    | OR | OFF | 2005/03/03 14:58 |
| S41 | 1  | (*6201828").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/03 15:03 |
| S42 | 0  | S41 and rate   | USPAT  | OR | OFF | 2005/03/03 15:04 |
| S43 | 0  | S41 and rate   | US-PGPUB; USPAT                                    | OR | OFF | 2005/03/03 15:05 |
| S44 | 0  | rake near receiv\$3 and correlat\$3 with (lower or higher or decrease or increase) with (chip near rate or symbol near rate) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 15:06 |
| S45 | 0  | rake near receiv\$3 and correlat\$3 with (lower or higher or decrease or increase) with (rate)                               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 15:07 |

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| S46 | 0  | rake near reclev\$3 and correlat\$3 same (lower or higher or decrease or increase) with (rate)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 15:07 | S53 | 24    | (first and second) with phase with compar\$4 and (first and second) with select\$3 with clock near signal with (chang\$3 or adjust\$3) with output near signal                 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 17:50 |
| S47 | 0  | rake near reclev\$3 and correlat\$3 same (lower or higher or decrease or increase) same (rate)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/03 15:07 | S54 | 1774  | (first and second) with phase with compar\$4 and (first and second) with counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 17:52 |
| S48 | 10 | ("5329559") or ("5592519") or ("5610954") or ("5689530") or ("5889828") or ("5905759") or ("5936445") or ("5966033") or ("5917008") or ("6324236").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/04 19:55 | S55 | 98    | (first and second) with phase with compar\$4 and (first and second) with (many or plural\$3) near3 control near signal\$1  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 17:43 |
| S49 | 21 | ("4918405") or ("4926447") or ("5295164") or ("5455847") or ("5663666") or ("5822386") or ("5952853") or ("5936069") or ("6124996") or ("6266799") or ("6307906") or ("6310498") or ("6316966") or ("6327318") or ("4970609") or ("5953386") or ("5987085") or ("6028903") or ("6041090") or ("6104326") or ("6310521").PN. | USPAT; USOCR                                       | OR | OFF | 2005/03/04 19:57 | S56 | 2     | (first and second) with phase near2 compar\$4 and (first and second) near2 count\$3 with select\$3 with clock near signal with (chang\$3 or adjust\$3) with output near signal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 17:51 |
| S50 | 21 | ("4918405") or ("4926447") or ("5295164") or ("5455847") or ("5663666") or ("5822386") or ("5952853") or ("5936069") or ("6124996") or ("6266799") or ("6307906") or ("6310498") or ("6316966") or ("6327318") or ("4970609") or ("5953386") or ("5987085") or ("6028903") or ("6041090") or ("6104326") or ("6310521").PN. | USPAT; USOCR                                       | OR | OFF | 2005/03/08 14:47 | S57 | 33    | (first and second) near phase near compar\$4 and (first and second) near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:00 |
| S51 | 10 | ("5329559") or ("5592519") or ("5610954") or ("5689530") or ("5889828") or ("5905759") or ("5936445") or ("5966033") or ("5917008") or ("6324236").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/08 16:32 | S58 | 48089 | (first and second) near phase near compar\$4 with data near signal wth output near signal and (first and second) near counter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:02 |
| S52 | 19 | digital near clock near recovery near system  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 16:33 | S59 | 0     | (first and second) near phase near compar\$4 with data near signal with output near signal and (first and second) near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:03 |
|     |    |   |  |    |     |                  | S60 | 10    | (first and second) near phase near compar\$4 with data near signal with output near signal   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:06 |

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| S61 | 11 | (first and second) near phase near (detect\$3 or compar\$4) with data near signal with output near signal  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:07 |
| S62 | 11 | (first and second) near phase near (detect\$5 or compar\$5) with data near signal with output near signal  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:06 |
| S63 | 0  | (first and second) near phase near (detect\$5 or compar\$5) with data near signal with output near signal and (adjust\$3 or chang\$3 or modif\$3) with output near signal with clock near signal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:08 |
| S64 | 1  | (first and second) near phase near (detect\$5 or compar\$5) and (first and second) near counter with output near signal with select\$3 with clock near signal                                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:12 |
| S65 | 3  | (first and second) near phase near (detect\$5 or compar\$5) and (first and second) near counter with output near signal with clock near signal   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:13 |
| S66 | 2  | (first and second) near phase near (detect\$5 or compar\$5) and (select\$3 near5 clock near signal with adjust\$3 near5 output near signal with select\$3 near5 clock near signal)               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:15 |
| S67 | 3  | (first and second) near phase near (detect\$4 or compar\$4) with (coupl\$2 or connect\$2) with (first and second) near counter   | USPAT  | OR | OFF | 2005/03/08 18:28 |
| S68 | 3  | (first and second) near phase near (detect\$4 or compar\$4) with (coupl\$2 or connect\$2) with (first and second) near counter\$1  | USPAT  | OR | OFF | 2005/03/08 18:19 |
| S69 | 0  | (first and second) near phase near (detect\$4 or compar\$4) with (coupl\$2 or connect\$2) with (adjust\$3 with output near signal with select\$3 with clock near signal)                         | USPAT  | OR | OFF | 2005/03/08 18:19 |

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| S70 | 0  | (first and second) near phase near (detect\$4 or compar\$4) with (coupl\$2 or connect\$2) with (adjust\$3 with output near signal with select\$3 with clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:29 |
| S71 | 1  | (first and second) near phase near (detect\$4 or compar\$4) with (adjust\$3 with output near signal with select\$3 with clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:20 |
| S72 | 2  | (first and second) near phase near (detect\$4 or compar\$4) same (adjust\$3 with output near signal with select\$3 with clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:21 |
| S73 | 0  | (multiple or many or several or plural\$3) near phase near (detect\$4 or compar\$4) with (coupl\$2 or connect\$2) with (first and second) near counter   | USPAT  | OR | OFF | 2005/03/08 18:28 |
| S74 | 9  | phase near (detect\$4 or compar\$4) with (adjust\$3 with output near signal with select\$3 with clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:30 |
| S75 | 8  | phase near (detect\$4 or compar\$4) with (adjust\$3 or shift\$3) near5 output near signal with (select\$3 near5 clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:34 |
| S76 | 19 | (first and second) near (select\$2 or mux or multiplexer) with output near signal and (first and second) near phase near (detect\$2 or comparat\$2)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/08 18:35 |
| S77 | 0  | first near phase near (compar\$4 or detect\$3) with (data near signal) with (feedback or (output near signal)) and second near phase near (detect\$3 or comparat\$4) with (clock near signal) with (delay\$3 near clock near signal) | USPAT  | OR | OFF | 2005/03/09 17:38 |

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| S78 | 1  | first near phase near (compar\$4 or detect\$3) with (data near signal) with (feedback or output near signal) and second near phase near (detect\$3 or comparat\$4) with (clock near signal) with (delay\$3 near clock near signal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/09 17:38 |
| S79 | 3  | second near phase near (detect\$3 or comparat\$4) with (clock near signal) with (delay\$3 near clock near signal) and (control near signals\$1 with select\$2 near\$2 clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/09 18:21 |
| S80 | 3  | second near phase near (detect\$3 or comparat\$4) with (clock near signal) with (delay\$3 near clock near signal) and (control near signals\$1 with select\$2 near\$5 clock near signal)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/09 18:22 |
| S81 | 5  | ((4755704") or ("4600943") or ("5006979") or ("5218314") or ("5790611").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/09 18:24 |
| S82 | 3  | phase near (detect\$3 or comparat\$3) with counter with select\$2 near\$2 clock near signal with control near signal\$1  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/09 18:28 |
| S83 | 8  | phase near (detect\$3 or comparat\$3) with (first and second) near counter with clock near signal with control near signal\$1  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/09 18:28 |
| S84 | 0  | (first and second) near phase near compar\$4 with data near signal with output near signal and (first and second) near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 09:00 |
| S85 | 33 | (first and second) near phase near compar\$4 and (first and second) near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 09:55 |
| S86 | 0  | (first and second) near phase near compar\$4 same (data near signal with (feedback or output near signal)) and (first and second) near counter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 09:01 |

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| S87 | 0   | (first and second) near phase near compar\$4 same (data near signal same (feedback or output near signal)) and (first and second) near counter | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 09:01 |
| S88 | 0   | (first and second) near phase near compar\$4 same (data near signal and (feedback or output near signal)) and (first and second) near counter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 09:01 |
| S89 | 26  | (first near counter) with (couple\$1 or connect\$2) with (second near counter) with phase near (detect\$3 or comparat\$3)                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 09:56 |
| S90 | 20  | (first near counter) near7 (couple\$1 or connect\$2) with (second near counter) with phase near (detect\$3 or comparat\$3)                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 10:36 |
| S91 | 124 | (first near counter) near7 (couple\$1 or connect\$2) near7 (second near counter) and phase near (detect\$3 or comparat\$3)                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 10:36 |
| S92 | 14  | (first near counter) near7 (couple\$1 or connect\$2) near7 (second near counter) with phase near (detect\$3 or comparat\$3)                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 10:37 |
| S93 | 10  | (first near counter) near7 (couple\$1 or connect\$2) near5 (second near counter) with phase near (detect\$3 or comparat\$3)                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 10:48 |
| S94 | 5   | (first near counter) near3 (couple\$1 or connect\$2) near3 (second near counter) with phase near (detect\$3 or comparat\$3)                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 10:49 |

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| S95  | 0 | phase near (detect\$3 or comparat\$3) near3 (first near counter) adj3 (couple\$1 or connect\$2) adj3 (second near counter)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 10:50 |
| S96  | 9 | phase near (detect\$3 or comparat\$3) and (first near counter) adj3 (couple\$1 or connect\$2) adj3 (second near counter)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 12:29 |
| S97  | 1 | phase near (detect\$3 or comparat\$3) and (first near counter) adj3 (couple\$1 or connect\$2) adj3 (second near counter) with (multiplexor or mux or selector)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 14:21 |
| S98  | 9 | delay near line\$1 and (first and second) near counter and (first and second) near phase near detect\$3   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 13:46 |
| S99  | 0 | ("wo105052").PN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 13:47 |
| S100 | 1 | phase near (detect\$3 or comparat\$3) with ((data or receive\$2) near signal) with (output near signal or feedback) and (first near counter) with (second near counter) with (multiplexor or mux or selector) with delay near line\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:34 |
| S101 | 5 | ((4755704") or ("5006979") or ("5218314") or ("5790611") or ("4600943")).PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/10 15:37 |
| S102 | 2 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) and (first near counter) with (coupl\$2 or connect\$2) with (second near counter)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:40 |
| S103 | 1 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) with counter with select\$2 with control near signal\$1   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:41 |

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| S105 | 3 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) same (counter with select\$2 with control near signal\$1)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:42 |
| S106 | 0 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) same ((many or plural\$3 or several or two or dual) near counter with select\$2 with control near signal\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:43 |
| S107 | 0 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) same (first near counter with coupl\$2 with second near counter)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:44 |
| S108 | 0 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) same (first near counter with (coupl\$2 or connect\$2) with second near counter)                             | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:46 |
| S109 | 0 | phase near (detect\$2 or comparat\$2) with data near signal with (feedback or output near signal) same (first near counter with select\$2 with delay near line\$1)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:47 |
| S110 | 0 | phase near (detect\$2 or comparat\$2) with data near signal same (feedback or output near signal) same (first near counter with select\$2 with delay near line\$1)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:48 |
| S111 | 0 | phase near (detect\$2 or comparat\$2) with data near signal same (feedback or output near signal) same (first near counter with select\$2 with delay near line\$1)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:48 |
| S112 | 0 | phase near (detect\$2 or comparat\$2) with data near signal same (feedback or output near signal) same (first near counter with select\$2 same delay near line\$1)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/10 15:50 |
| S113 | 4 | ((6181174") or ("6342796") or ("6501309") or ("6509775")).PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/10 15:52 |

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|----------|------|---|--|----|-----|------------------|
| S14<br>5 | 6    | phase near (detects2 or comparators2) with low near pass near filter near4 (selects2 or mux or multiplexor) and delay and clock near recovery                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:14 |
| S14<br>6 | 5    | phase near (detects2 or comparators2) with loop near filter with low near pass near filter with delay near line   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:28 |
| S14<br>7 | 1    | (*6711227").PN.   | USPAT; USOCR                                       | OR | OFF | 2005/03/11 17:14 |
| S14<br>8 | 0    | S147 and low near pass near filter  | USPAT  | OR | OFF | 2005/03/11 17:37 |
| S14<br>9 | 1349 | low near pass near filter with loop near filter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:18 |
| S15<br>1 | 45   | high near pass near filter with loop near filter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:18 |
| S15<br>2 | 1    | phase near (detects2 or comparators2) with low near pass near filter with (selects2 or mux or multiplexor) by delay near line                                   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:30 |
| S15<br>3 | 38   | phase near (detects2 or comparators2) with (coups2 or connects2) with low near pass near filter with (selects2 or mux or multiplexor)                           | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:31 |
| S15<br>4 | 1    | phase near (detects2 or comparators2) with (coups2 or connects2) with low near pass near filter with (selects2 or mux or multiplexor) with (delay near line)    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:32 |
| S15<br>5 | 0    | phase near (detects2 or comparators2) with (coups2 or connects2) with low near pass near filter with (selects2 or mux or multiplexor) with (delay near element) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:31 |

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|----------|--------|--|--|----|-----|------------------|
| S15<br>6 | 1      | phase near (detects2 or comparators2) with (coups2 or connects2) with low near pass near filter with (selects2 or mux or multiplexor) same (delay near line) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:32 |
| S15<br>7 | 2      | phase near (detects2 or comparators2) with (coups2 or connects2) with low near pass near filter with (selects2 or mux or multiplexor) and (delay near line)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/11 17:32 |
| S15<br>8 | 178103 | S147 and low near pass ]   | USPAT  | OR | OFF | 2005/03/11 17:37 |
| S15<br>9 | 0      | S147 and low near pass   | USPAT  | OR | OFF | 2005/03/11 17:39 |
| S16<br>0 | 1      | S147 and loop near filter  | USPAT  | OR | OFF | 2005/03/11 17:41 |
| S16<br>1 | 142    | phase near (detects2 or comparator) with (low near pass near filter) with (delay near line or phase near shifter)  | USPAT  | OR | OFF | 2005/03/11 17:42 |
| S16<br>2 | 1      | phase near (detects2 or comparator) with (low near pass near filter) near5 (selects2 or mux or multiplexor) with (delay near line or phase near shifter)     | USPAT  | OR | OFF | 2005/03/11 17:43 |
| S16<br>3 | 1      | phase near (detects2 or comparator) with (low near pass near filter) near8 (selects2 or mux or multiplexor) with (delay near line or phase near shifter)     | USPAT  | OR | OFF | 2005/03/11 17:44 |
| S16<br>4 | 2      | phase near (detects2 or comparator) with (low near pass near filter) with (selects2 or mux or multiplexor) with (delay near line or phase near shifter)      | USPAT  | OR | OFF | 2005/03/11 17:44 |
| S16<br>5 | 2      | phase near (detects2 or comparator) with (low near pass near filter) with (selects2 or mux or multiplexor) with (delay near line or phase near shifter)      | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 17:44 |
| S16<br>6 | 1      | phase near (detects2 or comparator) with (low near pass near filter) near5 (selects2 or mux or multiplexor) with (delay near line or phase near shifter)     | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 17:44 |

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|----------|-----|--|------------------------|----|-----|------------------|
| S16<br>7 | 5   | phase near (detects2 or comparator) with (low near pass near filter) with (selects2 or mux or multiplexor) same (delay near line or phase near shifter)            | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 17:48 |
| S16<br>8 | 192 | phase near (detects2 or comparator) with (low near pass near filter) with (delay near line or phase near shifter)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 17:48 |
| S16<br>9 | 21  | phase near (detects2 or comparator) with (low near pass near filter) with (delay near line or phase near shifter) and clock near recovery                          | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 17:53 |
| S17<br>0 | 79  | phase near (detects2 or comparator) with (low near pass near filter) near5 (delay near line or phase near shifter)   | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 17:53 |
| S17<br>1 | 84  | phase near (detects2 or comparator) near7 (low near pass near filter) near6 (delay near line or phase near shifter)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 17:57 |
| S17<br>2 | 31  | phase near (detects2 or comparator) near7 (low near pass near filter) near6 (delay near line)  | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 19:12 |
| S17<br>3 | 0   | (first and second) near phase near (detects2 or comparator) with (first and second) near (low near pass near filter) nears (delay near line)                       | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 19:13 |
| S17<br>4 | 0   | (first and second) near phase near (detects2 or comparator) with (first and second) near (low near pass near filter) with (delay near line)                        | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 19:13 |
| S17<br>5 | 0   | (first and second) near phase near (detects2 or comparator) same (first and second) near (low near pass near filter) same (delay near line)                        | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 19:13 |
| S17<br>6 | 0   | (first and second) near phase near (detects2 or comparator) and (first and second) near (low near pass near filter) same (delay near line)                         | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 19:14 |
| S17<br>7 | 0   | (first and second) near phase near (detects2 or comparator) and (many or several or plurality or multiple) near (low near pass near filter) same (delay near line) | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/11 19:14 |

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|----------|-----|---|--|----|-----|------------------|
| S17<br>8 | 0   | (first and second) near phase near (detects2 or comparator) and (many or several or plurality or multiple) near (low near pass near filter) | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 19:14 |
| S17<br>9 | 14  | phase near (detects2 or comparator) and (many or several or plurality or multiple) near (low near pass near filter)                         | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 19:16 |
| S18<br>0 | 2   | phase near (detects2 or comparator) with (many or several or plurality or multiple) near (low near pass near filter)                        | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 19:15 |
| S18<br>1 | 3   | phase near (detects2 or comparator) same (many or several or plurality or multiple) near (low near pass near filter)                        | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 19:16 |
| S18<br>2 | 139 | phase near (detects2 or comparator) same (first and second) near (low near pass near filter)  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 19:16 |
| S18<br>3 | 44  | (first and second) near phase near (detects2 or comparator) same (first and second) near (low near pass near filter)                        | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/11 19:16 |
| S18<br>4 | 1   | (*2002009045").PN.  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 09:53 |
| S18<br>5 | 1   | S184 and range  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 09:53 |
| S18<br>6 | 1   | S184 and change   | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 09:55 |
| S18<br>7 | 1   | S184 and fbx\$2 near clock near signal  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 11:07 |
| S18<br>8 | 1   | S184 and variable near clock near signal  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 09:55 |
| S18<br>9 | 419 | phase near (detects2 or comparators2) with delay near (element or line) and low near pass near filter                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:00 |

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|----------|-----|--|--|----|-----|------------------|
| S19<br>0 | 161 | phase near (detects\$2 or comparats\$2) with delay near (element or line) same low near pass near filter   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:00 |
| S19<br>1 | 5   | (first and second) near phase near (detects\$2 or comparats\$2) with delay near (element or line) same low near pass near filter                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:07 |
| S19<br>2 | 0   | phase near (detects\$2 or comparats\$2) near6 data near signal with (feedback or delay near signal) with delay near (element or line) same low near pass near filter | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:08 |
| S19<br>3 | 2   | phase near (detects\$2 or comparats\$2) with data near signal with (feedback or delay near signal) with delay near (element or line) same low near pass near filter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:17 |
| S19<br>4 | 2   | phase near (detects\$2 or comparats\$2) with data near signal with (feedback or delay near signal) same delay near (element or line) same low near pass near filter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:18 |
| S19<br>5 | 6   | phase near (detects\$2 or comparats\$2) with data near signal with (feedback or delay near signal) same low near pass near filter                                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 10:18 |
| S19<br>6 | 0   | refermee near selects\$3 near signal with clock near period and phase near (detects\$3 or comparats\$3) with delay near line\$1                                      | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 11:09 |
| S19<br>7 | 0   | refermee near select\$3 near signal with clock near period and phase near (detects\$3 or comparats\$3) and delay near line\$1  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 11:10 |
| S19<br>8 | 30  | selects\$3 near5 signal with clock near period and phase near (detects\$3 or comparats\$3) and delay near line\$1  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 11:21 |
| S19<br>9 | 1   | (*5488641").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/14 11:21 |
| S20<br>0 | 1   | S199 and length with delay near line   | USPAT  | OR | OFF | 2005/03/14 11:24 |

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|----------|----|---|--|----|-----|------------------|
| S20<br>1 | 1  | S199 and length with local near clock near signal with period with delay near line  | USPAT  | OR | OFF | 2005/03/14 11:26 |
| S20<br>2 | 1  | S199 and length with local near clock near signal with frequency with delay near line   | USPAT  | OR | OFF | 2005/03/14 13:22 |
| S20<br>3 | 8  | phase near (comparats\$2 or detect\$2 or generats\$2) with clock near signal with (multiple or many or several or plural\$3) near3 phase near2 shift\$2 near4 clock near signal             | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 14:49 |
| S20<br>4 | 17 | phase near (comparats\$2 or detect\$2 or generats\$2) with data near signal with (feedback or output near signal) with low near pass near filter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 14:53 |
| S20<br>5 | 3  | phase near (comparats\$2 or detect\$2 or generats\$2) with data near signal with (feedback or output near signal) with low near pass near filter with (mux or select\$2 or multiplexor)     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:07 |
| S20<br>6 | 3  | (phase near (comparats\$2 or detect\$2 or generats\$2) with data near signal with (feedback or output near signal)) with low near pass near filter with (mux or select\$2 or multiplexor)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:30 |
| S20<br>7 | 0  | (phase near (comparats\$2 or detect\$2 or generats\$2) near6 (data near signal and (feedback or output near signal))) with low near pass near filter with (mux or select\$2 or multiplexor) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:08 |
| S20<br>8 | 7  | (phase near (comparats\$2 or detect\$2 or generats\$2) near6 (data near signal and (feedback or output near signal))) with low near pass near filter  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:30 |
| S20<br>9 | 5  | (phase near (comparats\$2 or detect\$2 or generats\$2) near6 (data near signal with (feedback or output near signal))) with low near pass near filter                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:09 |

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|----------|----|--|--|----|-----|------------------|
| S21<br>0 | 0  | digital with (phase near (comparats\$2 or detect\$2 or generats\$2) near6 (data near signal and (feedback or output near signal))) with low near pass near filter        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:26 |
| S21<br>1 | 5  | digital and (phase near (comparats\$2 or detect\$2 or generats\$2) near6 (data near signal and (feedback or output near signal))) with low near pass near filter         | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:27 |
| S21<br>2 | 30 | phase near (comparats\$2 or detect\$2 or generats\$2 or generats\$2) near6 (clock near signal) with (many or multiple or several or plural\$3) with phase near2 shift\$2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/14 15:48 |
| S21<br>3 | 1  | (*5488641").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/14 15:48 |
| S21<br>4 | 0  | S213 and clock near period   | USPAT  | OR | OFF | 2005/03/14 15:48 |
| S21<br>5 | 1  | (*20020084816").PN.  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 15:49 |
| S21<br>6 | 0  | S215 and clock near period   | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 15:49 |
| S21<br>7 | 0  | clock near period with clock near signal with select\$3 near3 signal with delay near line with phase near (comparats\$2 or detect\$2)                                    | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 15:50 |
| S21<br>8 | 6  | clock near period with clock near signal with select\$3 near3 signal with delay near line and phase near (comparats\$2 or detect\$2)                                     | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 15:52 |
| S21<br>9 | 1  | (*20020090045").PN.  | US-PGPUB; USPAT; USOCR                             | OR | OFF | 2005/03/14 15:52 |
| S22<br>0 | 1  | S219 and clock near period   | US-PGPUB; USPAT                                    | OR | OFF | 2005/03/14 15:57 |
| S22<br>1 | 1  | (*6320436").PN.  | USPAT; USOCR                                       | OR | OFF | 2005/03/14 15:57 |
| S22<br>2 | 1  | S221 and clock near period   | USPAT  | OR | OFF | 2005/03/14 15:57 |

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|----------|-----|---|--|----|-----|------------------|
| S22<br>3 | 3   | phase near (detects\$2 or comparats\$2) with data near signal with low near pass near filter with delay near line | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/18 10:52 |
| S22<br>4 | 304 | vco with delay near line  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/18 10:53 |
| S22<br>5 | 11  | vco with delay near line with phase near (detector or comparator) with low near pass near filter                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/18 13:36 |

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